CONVERSE CONSULTANTS ORANGE COUNTY



Consulting Engineering and Applied Sciences

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December 12, 1995

Luis Lodrigueza Hazardous Waste Specialist Orange County Health Care Agency 2009 East Edinger Santa Ana, CA 92705

SUBJECT: Soil Remediation Closure Report

Fullerton Business Park North 1551 East Orangethrope Avenue

Fullerton, California OCHCA Case #94IC29

Converse Project No. 94-42871-05

Dear Mr. Lodrigueza:

Converse Consultants Orange County (Converse), on behalf of Red Eagle Properties, Ltd., is pleased to present this Soil Remediation Closure Report summarizing the compliance soil sampling activities at the above referenced property. These services were performed to verify the effects of the soil remediation work (soil vapor extraction system) conducted at the site between August and November 1995. For Site Vicinity, see Figure No. 1

BACKGROUND

Red Eagle Properties, Ltd. purchased the subject site from the Resolution Trust Corporation (RTC) in May 1994. The property was sold by Red Eagle Properties, Ltd. to Elden County Affaire, a furniture manufacturer, in March 1995.

Two on-site clarifiers were discovered during a previous Preliminary Site Assessment of the subject property conducted by Converse in 1992 for Red Eagle Properties, Ltd. The clarifiers were located in the northeast section of the property, on the southeastern side of the existing warehouse. Red Eagle Properties, Ltd. did not occupy the property and never conducted operations that utilized the two clarifiers.

Mr. Luis Lodrigueza Orange County Health Care Agency Converse Project No. 95-42871-05 December 12, 1995 Page 2

The clarifiers were removed in September 1994, prior to ownership or occupancy by Elden County Affaire. Chemical analyses of soil samples collected during the clarifier removals indicated elevated Total Recovery Petroleum Hydrocarbons (TRPH) and Tetrachloroethene (PCE) concentrations in soil adjacent to the southern-most clarifier. Converse recommended further investigation to assess the extent of PCE-impacted soil in the vicinity of this clarifier (Converse, 1994a).

Between October and December, 1994, Converse advanced seven (7) soil probes (BH-1 through BH-7) using a Geoprobe Systems sampling technique. For probe locations, see Figure No. 2. Detectable PCE concentrations were reported in soil samples from each probe location (BH-1, BH-2, BH-3, BH-5, and BH-7) except for locations BH-4 and BH-6. Relatively high PCE concentrations were reported in samples from probes BH-5 (from 84.5 to 96 parts per million) (Converse, 1994b). In January, 1995, Converse advanced nine (9) additional soil probes (BH-4A through BH-6A and BH-8 through BH-13) in the vicinity of the removed clarifier in an attempt to further assess the vertical and lateral extent of PCE-impacted soil and to confirm previous results (Converse, 1995a).

In March 1995, Converse advanced two soil borings BH-14 and BH-15 (hollow-stem auger) with the intent of installing groundwater monitoring wells, based on the assumption that groundwater was approximately 60 feet below ground surface (bgs). Groundwater was not encountered until approximately 115 feet bgs, and approximately 50 feet of non-impacted PCE soil was identified directly above the groundwater table. It was therefore concluded that groundwater had not been impacted by a release of PCE from the former clarifier, and the base of the PCE-impacted soil was defined at about 60 feet bgs. Based on these data, neither of the proposed groundwater monitoring wells were installed (Converse, 1995b).

In summary, relatively high PCE concentrations were reported in soil samples from locations BH-5/BH-5A and BH-8, located west and northwest of the former clarifier. Samples from the remainder of the sample locations contained detectable PCE concentrations, although at relatively lower concentrations than in soil from BH-5/BH-5A and BH-8. The highest reported PCE concentrations in each boring occurred consistently between about 20 and 25 feet bgs, within samples from the silty sand unit. Most of the sample locations reported interspersed detectable and nondetectable PCE concentrations with depth, which has been attributed to the non-uniform subsurface geology. Only five of the ten soil samples collected from a depth of 40 feet bgs reportedly contained detectable PCE concentrations.

As expressed in your letter dated December 14, 1994, the analytical results from the various investigation work has identified levels of PCE that create a public health excess lifetime cancer risk greater than the acceptable 1 x 10⁻⁶ level (based on the simplified vapor diffusion model).

Mr. Luis Lodrigueza Orange County Health Care Agency Converse Project No. 95-42871-05 December 12, 1995 Page 3

In order to reduce the concentration of the previously identified soil contaminants, associated with the former clarifier, Converse operated a soil vapor extraction and treatment system at the site. The soil remedial work was conducted in accordance with the Corrective Action Plan (CAP) dated July 26, 1995 (Converse, 1995c), and which was subsequently approved on July 31, 1995. The remediation system was operational between August 15, 1995 and November 27, 1995.

Converse issued a Soil Remediation System Progress Report, dated October 25, 1995, documenting the effectiveness of the remedial treatment system (Converse, 1995d). Based on the stabilized influent volatile organic compounds (VOCs) data collected during the latter stages of the remediation, Converse shut the remediation system down on November 10, 1995. The subsurface conditions were then allowed to equalize without the influence of the vapor extraction system for 10 days.

On November 20, 1995, Converse restarted the system and collected influent VOC measurements. The collected data indicated that there was not a restart spike in VOC concentration after the 10 day shutdown period; in fact, the VOC concentration continued to decline between November 20 and November 27, 1995, as compared to the November 10, 1995 data. Based on these data, it appeared that the remedial efforts had been successful in reducing the identified soil contaminants as reported in the Soil Remediation System Progress Report and Soil Sampling Work Plan, dated November 29, 1995 (Converse, 1995d and 1995e).

CLOSURE SOIL SAMPLING INVESTIGATION

The soil sampling work was conducted to verify that remedial activities were successful at the site and that the remaining soil contaminants do not create a public health excess lifetime cancer risk greater than the acceptable 1 x 10⁻⁶ level (based on the simplified vapor diffusion model). This work was conducted in accordance with the Soil Sampling Work Plan, dated November 29, 1995 (Converse, 1995e).

On December 1, 1995, Converse advanced three (3) soil probes in the previously identified impacted area using a Geoprobe soil sampling rig. Closure probes SP-1, SP-2, and SP-3 were each located near assessment borings BH-5/BH-5A, BH-8, and BH-9, respectively. Soil samples were collected at five foot intervals from each probe location, up to a total depth between 25 and 40 feet below ground surface. Each soil sample was field screened with an flame ionizing Organic Vapor Analyzer (OVA). The soil probe sampling locations and total depth of each probe are presented on Figure No. 2. For logs of the soil probes SP-1, SP-2, and SP-3, see Appendix A.

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Each soil sample was properly sealed, labelled, and stored in an ice-cooled chest and delivered to a State of California, DHS certified laboratory for chemical analyses. Proper chain-of-custody protocol was followed for all samples. Soil samples indicating the highest OVA measurement were selected for analysis and chemically analyzed for VOCs using EPA Test Method 8010.

CLOSURE SOIL SAMPLING RESULTS

PCE concentrations between 0.3 and 13.7 parts per million (ppm) were detected in soil samples collected from SP-1. PCE concentrations between 6.2 and 25.3 ppm were detected in samples from SP-2, and 1.3 and 16 ppm in two samples from SP-3.

Additionally, lower concentrations of 1,1-Dichlororethene (1,1-DCE), 1,1,1-Trichloroethane (1,1,1-TCA), and Trichloroethene (TCE) were also detected between 20 and 30 feet bgs in samples collected from SP-1, between 15 and 30 feet bgs in samples from SP-2, and in one sample from SP-3. For the laboratory results of the soil samples collected and analyzed in December 1995, see Table 1.

Based on the laboratory results for the soil samples collected from SP-1, PCE concentrations have been significantly reduced by the remediation system from 84.5 to 0.33 ppm (15 feet bgs), from 96 to 12.8 ppm (20 feet bgs), and from 88 to 13.7 ppm (25 feet bgs). Results from SP-2 indicate significant PCE reduction from 32 to 6.2 ppm (15 feet bgs), 26 to 12 ppm (20 feet bgs), 92 to 25.3 ppm (25 feet bgs), and 15 to 10.6 ppm (30 feet bgs). Reduction of detectable PCE concentrations was detected in SP-3 from 18 to 16 ppm (25 feet bgs). For comparison of the soil analytical data collected prior and after the remediation system operation, see Table 1. For soil analytical report from the December 1, 1995 investigation, see Appendix B.

CONCLUSIONS

Based on the laboratory results of soil samples collected and analyzed from soil probes SP-1, SP-2 and SP-3, significant reduction of PCE concentrations have occurred since the initial site investigations. The Converse soil vapor extraction and treatment system was successful in reduction of the concentrations of the previously identified soil contaminants, associated with the former clarifier. Converse requests that the recent analytical results be evaluated in accordance with the simplified vapor diffusion model to identify if the levels of PCE create a public health excess lifetime cancer risk greater than the acceptable 1 x 10⁻⁶ level. If the model results are favorable, Converse, on behalf of Red Eagle Properties, Ltd. requests that site closure be granted and that no further investigation or remediation work be requested for the subject site.

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If you have any questions or require additional information, please contact the undersigned at (714) 453-2880.

Henry B. Ames, I

Senior Geologist

No. 6304

Sincerely,

CONVERSE CONSULTANTS ORANGE COUNTY

Joseph Radonich

Project Environmental Scientist

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JR/HBA/GSS

Attachments References

Table 1: Laboratory Results of Soil Samples

Figure 1: Vicinity Map
Figure 2: Site Layout Map
Appendix A: Soil Probe Logs

Appendix B: Laboratory Analytical Report

cc: Carl Ross & Mark Boen, Red Eagle Properties, Ltd.

Augustine Anijielo, Santa Ana Regional Water Quality Control Board

Mr. Gene Rosecrans, Community Bank

Mr. Roger Turner

Mr. Alan Needle, Country Affair



REFERENCES

REFERENCES

Converse Consultants Orange County, 1994a, <u>Clarifier Removal and Soil Analysis</u>, Fullerton Business Park North, dated October 18, 1994.

Converse Consultants Orange County, 1994b, <u>Site Characterization Summary Report</u>, Fullerton Business Park North, dated November 11, 1994.

Converse Consultants Orange County, 1995a, <u>Summary Report</u>, <u>Additional Site Characterization</u>, Fullerton Business Park North, dated January 26, 1995.

Converse Consultants Orange County, 1995b, <u>Summary Report of Additional Site Characterization</u>, Fullerton Business Park North, dated May 18, 1995.

Converse Consultants Orange County, 1995c, Corrective Action Plan, Fullerton Business Park North, dated July 26, 1995.

Converse Consultants Orange County, 1995d, Soil Remediation System Progress Report, Fullerton Business Park North, dated October 25, 1995.

Converse Consultants Orange County, 1995e, Soil Sampling Work Plan, Fullerton Business Park North, dated November 29, 1995.



TABLES

TABLE 1

Laboratory Results of Soil Samples Fullerton Business Park North Fullerton, California (Converse Project No. 94-42-871-04)

EPA Laboratory Method 8010 - Purgeable Halocarbons

Results in Parts Per Million

| Sample Depth | Assessment Boring Closure Boring SP-1 BH-5 BH-5A | | | | | Assessment Boring BH-8 | Closure Boring SP-2 | | | Assessment Boring BH-9 | Clos | sure Boring SP-3 | | |
|----------------------------------|--|-----------------------|------------------------------|-----------------------------|----------------------------|-------------------------------|----------------------------------|-------------------------------------|-------------------------------------|------------------------------------|----------------------------------|---------------------------|------------------------------|----------------------------|
| (feet) | PCE | PCE | PCE | 1,1-DCE | 1,1,1-TCA | TCE | PCE | PCE | 1,1,1-TCA | TCE | PCE | PCE | 1,1,1-TCA | TCE |
| 15 20 25 30 35 40 | 84.5 96 88 | 17.5 1.07 0.028 | 0.33 12.8 13.7 0.30 | ND 3.1 0.89 ND | ND 0.67 19.6 0.11 | ND ND 0.48 0.078 | 32 26 92 15 ND ND | 6.2 12 25.3 10.6 NS | 0.59 5.6 6.0 0.9 NS | 1.1 3.4 1.0 1.2 NS | ND ND 18 ND ND ND | 1.3 16 NS NS | ND 12 NS NS | ND 0.56 NS NS |
| Date Sampled | 12/94 | 1/95 | | 12/95 | | | 1/95 | 12/95 | | 1/95 | 12/95 | | | |

LEGEND:

PCE = Tetrachloroethene

1,1-DCE = 1,1-Dichloroethene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

parts per million = milligrams per kilogram (mg/kg)

ND = Not Detected above method detection limits

-- = Not Analyzed

NS = No Sample Collected

Note - All other target compounds were not detected. See laboratory analytical report.



FIGURES



VICINITY MAP

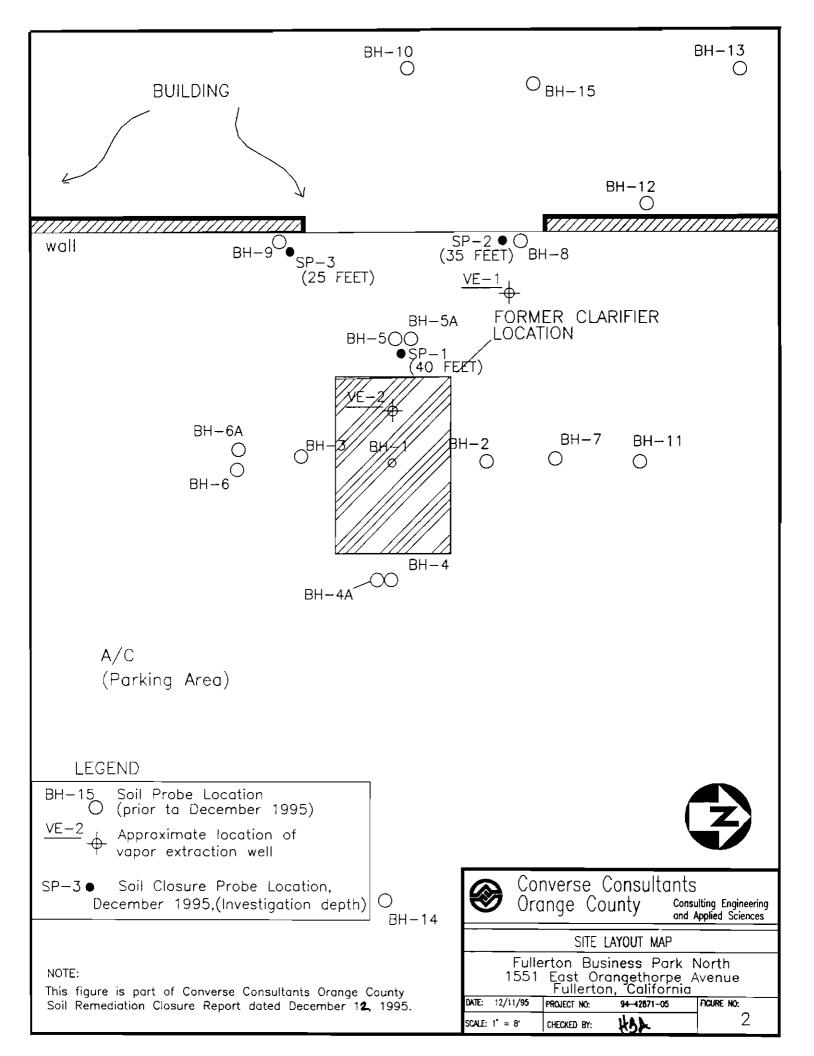
SITE CHARACTERIZATION 1551 East Orangethorpe Avenue Fullerton, California Project No.

94-42871-05



Figure No.

1





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APPENDIX

Α



PROJECT NAME

SITE GEOLOGIST(S)

ELEVATIONS(REL. MSL)

DRLG/CORING

WELL DEVELOP

WELL CONST

BACKFILL

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GRADE LEVEL (ft)

LITHOLOGICAL PROFILE

2.00-0.50 mm

0.25-0.062 mm

Slt -Silt <0.062 mm

Scr · Coarse Sand

Smd -Medium Sand 0.50-0.25 mm

Sfn · Fine Sand

Cl -Clay/Mud Gvt Scr Smd Sfn Stt Ct

Gvl -Gravel > 2.0 mm

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PROJECT NO.

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SHEET 1 OF 2

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| | BA | CK | FILL | | | 12/1 | /9 | 5 | (* PRIOR TO INITIAL DEVELOPMENT) |
| | | <u>-</u> | LITHOLOGICAL PRO | FILE | | <u> </u> | <u> </u> | | IBRATION DATE: 12/1/95 CALIBRATION UNITS: 95 pom |
| | | | Gvl -Gravei | | (| ORGAN | IIC. | POLLU | LUTANTS. |
| ш | READING | _ | > 2.0 mm Scr -Coarse San | | | THIS SUBSU PASSA | SUM IRFA | MARY CE CC OF TI | Y APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED. |
| SAMPLE | REAC | + | 2.00-D.50 Smd -Medium San | | | | | | - |
| ß | l | EPTH | 0.50-0.25 | пт | L0G | WELL: CONSTRUCTION | 띭 | SOIL CLASSIFICATION | OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE |
| EN | PID/DVA | 닖 | Sfn ·Fine Sand 0.25-0.062 | пт | ដ | 73 | 2 | 되었 | RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY |
| ۳. | 벑 | - | slt -silt <0.06 | 2 mm | Ŧ. | 걟 | SIC | SIF | MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS |
| | L. | | Cl -Clay/Mud | | SRAPHIC | Ž | Ξ | AS | 6 BEDFORMS AND OTHER SEDIMENTARY STRUCTURES. |
| | | - 0 - | Gvt Scr Smd Sfn St | tCl | | C | | 겁 | |
| | | ١. | | Ī | | | | | ASPHALT |
| | | | | | | | | | |
| | | | | | Ш | | | | |
| | | | | | | | | | |
| Ļ | | 5 - | | 1 | Щ | | | | ALLES PYLIP VA LIPRYIEL ARVILLER IV BRAJEL AALLE AVIV |
| 1 | 0 | ٠. | | : | | | SM | SP | SAND: FINE TO MEDIUM GRIANED, LT. BROWN, SOME SILT. |
| | | | | li | Ш | | | | |
| | | L . | | | | | | | |
| | | | | | Ш | | | | |
| | | 10- | | <u> </u> | Щ | | | | |
| 2 | 0 | 10 | | | | | sm | SP | AS_ARCYE |
| | | Ĺ. | | Ì | Ш | | | | |
| | | L . | | | Ш | | | | |
| | | L . | | | $\ \ $ | | | | |
| | | -15- | | Ţ | Щ | | | | |
| 3 | 50 | 13 | | | A | | SM | CL | CLAY M/ SILT: DRK. BROWN, SOME SAND. |
| | | | | lf | ÍΠ | | | | |
| | | | | | | | | | |
| | | ļ., | | | | | | | |
| | | -20- | | | Щ | | | | |
| 4 | 10 | | | | 丬 | | m | SM | SILIY SAMO: FINE TO MEDIUM GRAINED, DRK. BROWN. |
| | | | | H | | | | | |
| | | | | | $\ \ $ | | | | |
| | | | | | | | | | |
| | | | | L. | Ш | | | | |

| | g. | | LITHOLOGICAL PROFILE Gvt -Gravet > 2.0 mm | | PRO | | | CRSE CONSULTANTS ORANGE COUNTY CT NAME RED EAGLE/FULLERTON CT NO M-42871-04 LOG OF: SP-3 |
|------------|-----------------|------------|---|-------------|--------------|----|------------------------|---|
| ENV SAMPLE | PID/OVA READING | DEPTH (ft) | Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm Slt -Silt <0.062 mm Cl -Clay/Mud Gvl Scr Smd Sfn Slt Cl | GRAPHIC LOG | CONSTRUCTION | | SOIL CLASSIFICATION | DESCRIPTION OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAM, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, X QUARTZ, X FELDSPAR, X LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES. |
| 5 | 320 | -25- | | | | SM | SM | PROBER'S TOTAL DEPTH = 26.0 FEET BELOW GROUND SURFACE (BGS). NO FREE GROUND WATER ENCOUNTERED BGS. BACKFILLED WITH BENTONITE CHIPS. |
| | | -35 | | | | | | |
| | | 40- | | | | | | |
| | | 45 | | | | | | |
| | | 50 | | | | | | |
| | | 55 | | | | | | |
| | | 60- | | | | | | |
| | | 65- | | | | | | |

APPENDIX

B



806 North Batavia - Orange, California 92668 - 714/771-8900

FAX 714/538-1209

CLIENT

Converse Environmental West

(4708) ¹

LAB NO

H10300-01

Attn: Henry Ames 15245 Alton Parkway

REPORTED

12/07/95

Suite 100

Irvine, CA 92718

SAMPLE

Soil - SP-1/3'

RECEIVED

12/01/95

IDENTIFICATION

Prowestern

Date Collected 12/01/95

BASED ON SAMPLE

As Submitted

PURGEABLE HALOCARBONS

Constituent Method Da

Date/Analyst

Result

Tetrachloroethene

EPA 8010

12/03/95 RR

0.33 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward & Behare, Phot

Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

Page 1 of 10

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808 North Batavia - Orange, California 92868 - 714/771-8900

FAX 714/538-1209

CLIENT

Converse Environmental West (4708)

Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO
H10300-02
12/07/95

SAMPLE

Soil - SP-1/4'

RECEIVED 12/01/95

IDENTIFICATION

BASED ON SAMPLE

Prowestern

Date Collected 12/01/95

As Submitted

PURGEABLE HALOCARBONS

| Constituent | <u>Method</u> | Date/Analyst | Result |
|------------------------|---------------|--------------|---------------------|
| 1,1-Dichloroethene | EPA 8010 | 12/03/95 RR | 3.1 mg/kg |
| 1,1,1,-Trichloroethane | EPA 8010 | 12/03/95 RR | 0.67 m g/k g |
| Tetrachloroethene | EPA 8010 | 12/03/95 RR | 12.8 mg/kg |

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Beneve Ph.D.

ESB/ql

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FAX 714/538-1209

CLIENT

LAB NO H10300-03 (4708)Converse Environmental West Attn: Henry Ames REPORTED 12/07/95 15245 Alton Parkway Suite 100

Irvine, CA 92718

RECEIVED

SAMPLE

Soil - SP-1/5'

12/01/95

IDENTIFICATION

BASED ON SAMPLE

Prowestern

Date Collected 12/01/95

As Submitted

PURGEABLE HALOCARBONS

| Constituent | Method | Date/Analyst | <u>Result</u> | | | |
|-----------------------|----------|--------------|---------------|--|--|--|
| 1,1-Dichloroethane | EPA 8010 | 12/03/95 RR | 0.89 mg/kg | | | |
| 1,1,1-Trichloroethane | EPA 8010 | 12/03/95 RR | 19.6 mg/kg | | | |
| Trichloroethene | EPA 8010 | 12/03/95 RR | 0.48 mg/kg | | | |
| Tetrachloroethene | EPA 8010 | 12/03/95 RR | 13.7 mg/kg | | | |

All Other Target Compounds Were None Detected. See Attached List.

OPATORIES, by:

Ph.D. Vice President

ESB/ql

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FAX 714/538-1209

CLIENT

Converse Environmental West (4708)

Attn: Henry Ames
15245 Alton Parkway

LAB NO.
H10300-04
REPORTED
12/07/95

Suite 100

Irvine, CA 92718

SAMPLE Soil - SP-1/6' RECEIVED 12/01/95

IDENTIFICATION

Prowestern

BASED ON SAMPLE Date Collected 12/01/95

As Submitted

PURGEABLE HALOCARBONS

| Constituent | Method | Date/Analyst | Result |
|--|----------------------|----------------------------|---------------------------|
| 1,1,1-Trichloroethane Trichloroethene | EPA 8010 EPA 8010 | 12/03/95 RR 12/03/95 RR | 0.11 mg/kg 0.078 mg/kg |
| Tetrachloroethene | EPA 8010 | 12/03/95 RR | 0.30 mg/kg |

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behade, Fir.D.

ESB/ql

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808 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

CLIENT

Converse Environmental West

LAE NO.

(4708)

H10300-05

Attn: Henry Ames 15245 Alton Parkway

REPORTED

12/07/95

Suite 100

Irvine, CA 92718

RECEIVED

SAMPLE

Soil - SP-2/3'

12/01/95

IDENTIFICATION

Prowestern

BASED ON SAMPLE

Date Collected 12/01/95

As Submitted

PURGEABLE HALOCARBONS

| Constituent | <u>Method</u> | Date/Analyst | <u>Result</u> |
|---|---------------|--------------|---------------|
| 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene | EPA 8010 | 12/03/95 RR | 0.59 mg/kg |
| | EPA 8010 | 12/03/95 RR | 1.1 mg/kg |
| | EPA 8010 | 12/03/95 RR | 6.2 mg/kg |

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Johnse Dh.

Aice ALealden

ESB/ql

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806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

12/01/95

CLIENT

SAMPLE

Converse Environmental West (4708)

Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO
H10300-06
REPORTED
12/07/95

RECEIVED

RECEIVED

IDENTIFICATION

BASED ON SAMPLE

Prowestern

Soil - SP-2/4'

Date Collected 12/01/95

As Submitted

PURGEABLE HALOCARBONS

| Constituent | Method | Date/Analyst | <u>Result</u> | | |
|-----------------------|----------|--------------|---------------|--|--|
| 1,1,1-Trichloroethane | EPA 8010 | 12/03/95 RR | 5.6 mg/kg | | |
| Trichloroethene | EPA 8010 | 12/03/95 RR | 3.4 mg/kg | | |
| Tetrachloroethene | EPA 8010 | 12/03/95 RR | 12.0 mg/kg | | |

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward's Behare, Ph.D.

ESB/ql

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Environmental ·



808 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

CLENT

Converse Environmental West (4708)

Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO
H10300-07
REPORTED
12/07/95

SAMPLE

Soil - SP-2/5'

RECEIVED

12/01/95

IDENTIFICATION

Prowestern

BASED ON SAMPLE

Date Collected 12/01/95

As Submitted

PURGEABLE HALOCARBONS

| Constituent | Method | Date/Analyst | Result | | |
|-----------------------|----------|--------------|------------|--|--|
| 1,1,1-Trichloroethane | EPA 8010 | 12/03/95 RR | 6.0 mg/kg | | |
| Trichloroethene | EPA 8010 | 12/03/95 RR | 1.0 mg/kg | | |
| Tetrachloroethene | EPA 8010 | 12/03/95 RR | 25.3 mg/kg | | |

All Other Target Compounds Were None Detected. See Attached List.

SSOCIATED LABORATORIES, by:

Vice President

ESB/ql

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FAX 714/538-1209

CLIENT

LAB NO (4708)H10300-08 Converse Environmental West Attn: Henry Ames REPORTED 12/07/95 15245 Alton Parkway Suite 100 Irvine, CA 92718

RECEIVED SAMPLE 12/01/95 Soil - SP-2/6'

IDENTIFICATION

Provestern

Date Collected 12/01/95 BASED ON SAMPLE

As Submitted

PURGEABLE HALOCARBONS

| Constituent | Method | <u>Date/Analyst</u> | <u>Result</u> | | |
|--------------------------------------|----------------------|----------------------------|-------------------------|--|--|
| 1,1,1-Trichlorosthane | EPA 8010 EPA 8010 | 12/03/95 RR 12/03/95 RR | 0.90 mg/kg 1.2 mg/kg | | |
| Trichloroethene Tetrachloroethene | EPA 8010 | 12/03/95 RR 12/03/95 RR | 10.6 mg/kg | | |

All Other Target Compounds Were None Detected. See Attached List.

LABORATORIES, by: **ASSOC**

Behare, Ph.D.

Vice President

ESB/ql

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CLIENT

Converse Environmental West (4708) LAB NO

H10300-09

Attn: Henry Ames 15245 Alton Parkway

REPORTED

12/07/95

Suite 100

Irvine, CA 92718

RECEIVED

SAMPLE

Soil - SP-3/4'

12/01/95

IDENTIFICATION

BASED ON SAMPLE

Prowestern

Date Collected 12/01/95 As Submitted

PURGEABLE HALOCARBONS

Constituent

Method

Date/Analyst

Result

Tetrachloroethene

EPA 8010

12/03/95 RR

1.3 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

В

Vice President

ESB/ql

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Page 9 of 10

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806 North Batavia - Orange, California 92668 - 714/771-6900

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12/01/95

CLIENT

LAB NO Converse Environmental West (4708)H10300-10 Attn: Henry Ames REPORTED 12/07/95 15245 Alton Parkway Suite 100

Irvine, CA 92718

RECEIVED SAMPLE Soil - SP-3/5'

IDENTIFICATION

Provestern

Date Collected 12/01/95 BASED ON SAMPLE

As Submitted

PURGEABLE HALOCARBONS

| Constituent | Method | Date/Analyst | <u>Result</u> | | |
|--|----------------------|----------------------------|--------------------------|--|--|
| 1,1,1-Trichloroethane Trichloroethene | EPA 8010 EPA 8010 | 12/03/95 RR 12/03/95 RR | 12.0 mg/kg 0.56 mg/kg | | |
| Tetrachlorosthene | EPA 8010 | 12/03/95 RR 12/03/95 RR | 16.0 mg/kg | | |

All Other Target Compounds Were None Detected. See Attached List.

PRATORIES, by:

ESB/ql

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Client: Converse Environmental West Lab No.: H10300-01, 04 Date: December 07, 1995

| | LIMITS OF DETECTION |
|---------------------------------------|---------------------|
| PURGEABLE HALOCARBONS-EPA METHOD 8010 | (<u>ng/kg)</u> |
| 21.3 | 0.01 |
| Chloromethane | 0.01 |
| Bromomethane | – |
| Dichlorodifluoromethane | 0.01 |
| Vinyl chloride | 0.01 |
| Chloroethane | 0.61 |
| Methylene chloride | 0.01 |
| Trichlorofluoromethane | 0.01 |
| 1,1-Dichloroethene | 0.01 |
| 1,1-Dichlorosthane | 0.01 |
| trans-1,2-Dichloroethene | 0.01 |
| Chloroform | 0.01 |
| 1,2-Dichloroethane | 0.01 |
| 1,1,1-Trichloroethane | 0.01 |
| Carbon tetrachloride | 0.01 |
| Bromodichloromethane | 0.01 |
| 1,2-Dichloropropane | 0.01 |
| trans-1,3-Dichloropropene | 0.01 |
| Trichloroethene | 0.01 |
| Dibromochloromethane | 0.01 |
| 1,1,2-Trichloroethane | 0.61 |
| cis-1,3-Dichloropropene | 0.01 |
| 2-Chloroethylvinyl ether | 0.01 |
| Bromoform | 0.01 |
| 1,1,2,2-Tetrachloroethane | 0.01 |
| Tetrachloroethene | 0.01 |
| Chlorobenzene | 0.01 |
| 1,3-Dichlorobenzene | 0.01 |
| 1,2-Dichlorobenzene | 0.01 |
| 1,4-Dichlorobenzene | 0.01 |



Client: Converse Environmental West Lab No.: H10300-02, 06, 08 Date: December 07, 1995

| PURGEABLE HALOCARBONS-EPA METHOD 8010 | LIMITS OF DETECTION (mg/kg) |
|---------------------------------------|-----------------------------|
| Chloromethane | 0.2 |
| Bromomethane | 0.2 |
| Dichlorodifluoromethane | 0.2 |
| Vinyl chloride | 0.2 |
| Chloroethane | 0.2 |
| Methylene chloride | 0.2 |
| Trichlorofluoromethane | 0.2 |
| 1,1-Dichloroethene | 0.2 |
| 1,1-Dichlorosthane | 0.2 |
| trans-1,2-Dichloroethene | 0.2 |
| Chloroform | 0.2 |
| 1,2-Dichloroethane | 0.2 |
| 1,1,1-Trichloroethane | 0.2 |
| Carbon tetrachloride | 0.2 |
| Bromodichloromethane | 0.2 |
| 1,2-Dichloropropane | 0.2 |
| trans-1,3-Dichloropropene | 0.2 |
| Trichloroethene | 0.2 |
| Dibromochloromethane | 0.2 |
| 1,1,2-Trichloroethane | 0.2 |
| cis-1,3-Dichloropropene | 0.2 |
| 2-Chloroethylvinyl ether | 0.2 |
| Bromoform | 0.2 |
| 1,1,2,2-Tetrachloroethane | 0.2 |
| Tetrachloroethene | 0.2 |
| Chlorobenzene | 0.2 |
| 1,3-Dichlorobenzene | 0.2 |
| 1,2-Dichlorobenzene | 0.2 |
| 1,4-Dichlorobenzene | 0.2 |



Client: Converse Environmental West Lab No.: H10300-03, 05, 09

Date: December 07, 1995

| PURGEABLE HALOCARBONS-EPA METHOD 8010 | LIMITS OF DETECTION (mg/kg) |
|---------------------------------------|-----------------------------|
| Chloromethane | 0.1 |
| Bromomethane | 0.1 |
| Dichlorodifluoromethane | 0.1 |
| Vinyl chloride | 0.1 |
| Chloroethane | 0.1 |
| Methylene chloride | 0.1 |
| Trichlorofluoromethane | 0.1 |
| 1,1-Dichloroethene | 0.1 |
| 1,1-Dichloroethane | 0.1 |
| trans-1,2-Dichloroethene | 0.1 |
| Chloroform | 0.1 |
| 1,2-Dichloroethane | 0.1 |
| 1,1,1-Trichloroethane | 0.1 |
| Carbon tetrachloride | 0.1 |
| Bromodichloromethane | 0.1 |
| 1,2-Dichloropropane | 0.1 |
| trans-1,3-Dichloropropene | 0.1 |
| Trichloroethene | 0.1 |
| Dibromochloromethane | 0.1 |
| 1,1,2-Trichloroethane | 0.1 |
| cis-1,3-Dichloropropene | 0.1 |
| 2-Chloroethylvinyl ether | 0.1 |
| Bromoform | 0.1 |
| 1,1,2,2-Tetrachloroethane | 0.1 |
| Tetrachloroethene | 0.1 |
| Chlorobenzene | 0.1 |
| 1,3-Dichlorobenzene | 0.1 |
| 1,2-Dichlorobenzene | 0.1 |
| 1,4-Dichlorobenzene | 0.1 |



Client: Converse Environmental West Lab No.: H10300-07, 10

December 07, 1995 Date:

| PURGEABLE HALOCARBONS-EPA METHOD 8010 | LIMITS OF DETECTION (mg/kg) |
|---------------------------------------|-----------------------------|
| Chloromethane | 0.4 |
| Bromomethane | 0.4 |
| Dichlorodifluoromethane | 0.4 |
| Vinyl chloride | 0.4 |
| Chloroethane | 0.4 |
| Methylene chloride | 0.4 |
| Trichlorofluoromethane | 0.4 |
| 1,1-Dichloroethene | 0.4 |
| 1,1-Dichloroethane | 0.4 |
| trans-1,2-Dichloroethene | 0.4 |
| Chloroform | 0.4 |
| 1,2-Dichloroethane | 0.4 |
| 1,1,1-Trichloroethane | 0.4 |
| Carbon tetrachloride | 0.4 |
| Bromodichloromethane | 0.4 |
| 1,2-Dichloropropane | 0.4 |
| trans-1,3-Dichloropropene | 0.4 |
| Trichloroethene | 0.4 |
| Dibromochloromethane | 0.4 |
| 1,1,2-Trichloroethane | 0.4 |
| cis-1,3-Dichloropropene | 0.4 |
| 2-Chloroethylvinyl ether | 0.4 |
| Bromoform | 0.4 |
| 1,1,2,2-Tetrachloroethane | 0.4 |
| Tetrachloroethene | 0.4 |
| Chlorobenzene | 0.4 |
| 1,3-Dichlorobenzene | 0.4 |
| 1,2-Dichlorobenzene | 0.4 |
| 1,4-Dichlorobenzene | 0.4 |





806 N. Batavia • Orange, CA 92668 (714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 12/1/97 Page / of 7

| CLIENT_COM | erse CONVITANTS | · | | | | | | | | |
|---------------------|------------------------------------|-----------------------|--|--------|--|-------|-----------------|--|---|-------|
| ADDRESS TAVINE CA. | | | PROJECT MANAGER Chy Ame S PHONE NUMBER | | | | | Samples Intact Yes No County Seals Intact Yes No | | |
| PROJECT NAME | Pranestern | SAMPLERS: (Signature) | | | Sample Ambient Cooled X Frozen Same Day 24 Hr. Regular 48 Hr | | | | | |
| SAMPLE NUMBER | LOCATION DESCRIPTION | DATE | TIME | WATER | AMPLE TY | SOLID | NO OF CNTNRS | SUSP. CONTAM. | TESTS REQUIRED | |
| SP-1/1 | 5-5.5 DEPTH | 12/115 | | | | / | 01. | PCC | 8010 1610 | |
| 58-1/2 | 10-10.5 | // | | ,, | 1 | | - | | 1+060 | |
| SP-1/3 | 15-15.5 30ppm | ` | | P. | | | | | × | |
| SP-1/4 | 20-20.5 250 | | , | | 1 air | , | ļ | | X | |
| P-1/5 | 25-25.5 SWAPP | | | , : | | • : | · | | × | |
| 9-116 | 30-30.5 25ppm | | , , | 12. | | | , | s, | : X | |
| P-17 | 35-35.5 | | | 1999 | 19/83 | • . | | | 1100 | |
| 50-118 | 40-40.5 | | | | Traffich. | | 1. n. n. | | 1+01 D | |
| 50-2/1 | 5-5.54 | | | . (h.) | | 13.1 | | | HULD | |
| SP-2/2 | 10-105 | · | , | 1.0 | 3. | | , , | | HOLD | |
| 59-213 | 15-155 150 ppm | | .' . | 13.86 | | | | 2 . | X | |
| 50-3/4 | 20-205 2200PM | | , , | 1 4 4 | 100 | 1 | - 1 h | <u> </u> | X | |
| Relinquished by: (S | All di muse | | | • • | | 5' 1 | r/Time | I hereby indicated | authorize the performance of the work. | above |
| Relinquished by: | Signature) Received by (Signature) | y Laboratory | for analys | is: | · | 1 KZ | /Time | | | |
| Special Instruction | is: | | \sum | - | | • | | DISTRIBL Pink to Co | JTION: White with report. Yellow to ourler | AL, |



806 N. Batavia • Orange, CA 92668 (714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 12/1/95 Page 2 of 2

| CLIENT CON | reke Congitants | | | 2 | | | | • | | |
|---------------------|-------------------------|--------------------------|-------------------------------|---|--|-------------|---|------------------------------|--|--|
| ADDRESS Thinks, OA. | | - He | PROJECT MANAGER PHONE NUMBER | | | | Samples Intact Yes X No County Seals Intact Yes No Sample Ambient Cooled Frozen | | | |
| PROJECT NAME | Prowedern | SAMPLERS: (S | | 3: (Signature) | | | | Same Day 24 Hr Regular 48 Hr | | |
| SAMPLE NUMBER | LOCATION DESCRIPTION | DATE | TIME | WATER | AMPLE TY | SOLID | NO OF CNTNRS | SUSP. | TESTS REQUIRED | |
| SP-8/5 | 25-25.5 0Ept | 12/1/91 | | | | V | / | PCF | X 8010 | |
| SP1-2/6 | 30-30.5 20 | ppm | | | | | | | χ | |
| 58-2/7 | 35-35.5 25 | Dpga | | , | | | | | 4xD | |
| 5p-3/1 | 5-5.5 | V* | | , | <i>t</i> , | | | | 1100 | |
| 59-3/2 | 10-10.5 | | | 4.23 | 100 | | | | HOL D | |
| Sp-3/3 | 15-15.5 50 | gom | *** *** | 46.8 | | | ' | | HOLD | |
| 59-3/4 | 20-20.5 10 | Ppm | *** * | 100 | | | | | X | |
| 51-415 | 25-25.5 32 | Орры | ٦, | | | | | | X | |
| ./ | · - | | 13 | S. William | en de | - | | | | |
| , | | •, | | 1347 | 京 | ì | | | | |
| | | | 4. | بلوترغان من المنه والمار المار المار | | * · · · · · | | | | |
| | | | 基本 | 不是 | | | 3 | | į. | |
| Relinquished by: (S | rellioli 12/1/95 1 | i i | | | - 700 | | /Time | t hereby indicated | authorize the performance of the above work. | |
| Relinquished by: (S | Signatu | ed by Laboratory ure) | for analys | ils: | | Date | /Time <u> </u> | | | |
| Special Instruction | s: . () | | |) | A STATE OF THE STA | £ + | | DISTRIBL Pink to Co | JTION: White with report. Yellow to AL, ourler | |